

November 4, 2015



U.S. Department  
of Transportation

East Building, PHH-30  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 14978  
(THIRD REVISION)

**EXPIRATION DATE: September 30, 2019**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Air Products and Chemicals, Inc.  
Allentown, PA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of pyrophoric liquids in inner metal containers (bubblers) with openings greater than 25mm (1 inch) which are engineered to specific electronics applications that require a larger opening. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.181 in that openings may not exceed 25mm, except as provided herein.
5. BASIS: This special permit is based on the application of Air Products and Chemicals, Inc. dated October 14, 2015, submitted in accordance with § 107.109.

**November 4, 2015**6. HAZARDOUS MATERIALS (49 CFR § 172.101):

<b>Hazardous Materials Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Pyrophoric liquid, inorganic, n.o.s.	4.2	UN3194	I
Pyrophoric liquids, organic, n.o.s.	4.2	UN2845	I

7. SAFETY CONTROL MEASURES:a. PACKAGING - The prescribed packagings are as follows:

- (1) The outer packaging is a specification UN1A2 steel drum certified to the Packing Group I performance level with a marked maximum gross mass of no less than 200 kilograms with a capacity of 30 gallons. The inner packaging is a hermetically sealed stainless steel bubbler with a 4 inch flange-style opening closed with ten bolts not exceeding 4 L capacity. The inner packaging must be in conformance with drawings on file with the Office of Hazardous Materials Special Permits and Approvals (OHMSPA); or
- (2) The outer packaging is a specification UN1A2 steel drum certified to the Packing Group I performance level with a marked maximum gross mass of no less than 120 kilograms with a capacity of 10 gallons. The inner packaging is a hermetically sealed stainless steel bubbler with a 4 to 4.5 inch flange-style opening closed with eight to ten bolts not exceeding 1.2 L capacity. The inner packaging must be in conformance with drawings on file with (OHMSPA).

The void space around the inner packagings must be completely filled with vermiculite or other equivalent non-combustible cushioning material. No more than one inner packaging may be shipped in each outer packaging.

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b. OPERATIONAL CONTROLS - The bubblers are to be operated during transportation with an inert, positive pressure carrier gas.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

c. The outside of each steel drum must be plainly and durably marked with "DOT-SP 14978".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle, Cargo Vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this special permit.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

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Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notices of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm). Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: bjm/kah